Audio

Polycom StereoSurround™	• 2 channels of 22 kHz crystal clear audio • Superb clarity to hear the subtleties of every word • Easily decipher multiple, simultaneous conversations • Distinguish which side of the room people are talking from, just like in a real meeting
Polycom HDX Microphone Array	• 360° audio pickup • Padded feet filter out table-top noise • Sensitive enough to pick up whispers, smart enough to eliminate unwanted background noise • Versatile and attractive design for table top, wall or ceiling mount • Only one HDX microphone array needed to support StereoSurround • Gated enhanced stereo pickup • Four (4) microphone arrays supported
Audio Error Concealment	• Reduced audio drop-out on noisy networks • Smooth, consistent verbal communications without interruptions • Corrects audio from any system seamlessly • Activates automatically, only when needed • Keyboard noise reduction eliminates annoyance of keyboard typing

Video

True High Definition Video (HDX 9002 & 9004)	• True High Definition video with 720p (1280 x 720) video resolution at 30 fps at data rates from 1Mbps and above • Experience superb video at any data rate, including 4CIF from 256Kbps – 768Kbps • See every nuance, every color and every facial expression in high definition – taking video meetings to a new level of productivity
Standard Definition Video (HDX 9001)	• 4CIF video resolution at 30 fps • Experience four times the video quality at any bandwidth compared to non-HD video conferencing systems
Polycom Eagle-Eye Camera	• Crisp, clear color • Natural motion handling and smooth camera movement • See every person, image and even clear writing on a white board with 12x zoom • Capture 20% more of the room with a natural 16:9 aspect ratio
Video Error Concealment	• Reduced video drop-out on busy IP networks • Smooth, continuous video without interruptions • Maintain active face-to-face contact • Accomplish meeting objectives without worrying about the video integrity • Activates automatically, only when needed
Lost Packet Recover (LPR) and Dynamic Bandwidth Allocation	• The best Quality of Service (QoS) for IP conferencing, making packet loss on IP networks virtually undetectable by the user • Dynamic Bandwidth Allocation optimizes bandwidth in every call • Applies to the video, voice and content in any HDX call bringing the user an exceptional picture even on "dirty" networks

POLYCOM®

Content Sharing

People+Content™, H.239	• People and Content both shared in High Definition at supported bandwidths (HDX 9002 & 9004) • Polycom People+Content or standards based H.239 ensures interoperability in the industry • Dual images allows the far end to see the presentation and the speaker at the same time
People+Content IP	• Simply input the IP address of your HDX 9000 into a small utility and PC content is easily shown to all conference participants • This feature can be used by anyone in the conference, even voice-only participants!
People On Content™	• Optional feature allows for users to become part of their presentations • Using chroma key technology, users can place themselves in front of any HDX video input source. • Become part of your presentation and engage your audience like never before!
Adjustable Bandwidth for Content	• Choose the amount of bandwidth to dedicate to Content or People • Options include 90% Content/ 10% People; 50% Content/ 50% People; 10% Content/ 90% People • User adjustable setting can be accessed both during a call and outside of a call
Dedicated VCR/DVD Connection	• Ability to use line level inputs for other devices • Easily play VCR/DVD movies/images during a video conference • Adds another dimension to the conference, making it like "being there" • By setting it to content input you can see both the speaker and the DVD/VCR image
Multiple HD Content Sources	• Multiple video inputs can be selected as "Content" sources. These sources are also HD capable.

User Interface

Support for API Control Commands	• Custom control touch panel integration including AMX® or Crestron® is made easy with extensive support for API command set • Integrator's Reference Manual for HDX Series details over 200 commands for special applications • Sample control templates are available for touch panel integration that provides basic functionality right out of the box
Dual Monitor Emulation	• Use Dual Monitor Emulation for the most efficient use of a single display • View near and far video windows at the same time • Alternate layout views supporting near end, far end and content
User Selectable Camera Icons	• Use icons that represent your industry • Intuitive icons match the input device • Custom name gives the icon clear meaning • Selection – 5 libraries to choose from • Decreases learning curve
Display Configuration Choices	• Allows you to configure displays for your application • 4 display support (9004) or 3 display support (9001 & 9002) • HD, XGA or NTSC / PAL • Decide what shows on each display, near end, far end, or content

Platform Versatility

Supports up to 4 HDX Microphone Arrays	• Maximum coverage for extended rooms • Polycom StereoSurround support makes installing stereo even easier • Great audio pickup from every corner of the room • Each participant is near a microphone • Pin-point accuracy on the active speaker with multiple microphone arrays
Internal Multipoint Software	• Optional upgrade easily done with a software key • Conduct meetings beyond just point-to-point • Increase productivity by including key people on the call • Adding sites during a call can lead to quick decision making • Supports up to 4 or 8 (HDX 9004) video calls in a single conference • High definition continuous presence supported on HDX 9002/4
Secure FTP, Telnet and Web	• Polycom video systems are the most secure video conferencing solutions in the industry • All access to the HDX system can be secured including accessing the HDX system via web-browser as well as secure telnet and ftp access via SSH for secure system administration and application connectivity
Advanced Encryption Standard (AES)	• Communications are confidential and secure • Authentication by the National Institutes of Standards means it's credible • Built-in, no extra hardware required
H.460 NAT/Firewall Traversal	• Standards compliance for traversing NATs and Firewalls • Session border controller (V2IU) is only needed at the central location and all VSX systems with H.460 can communicate through the single V2IU • Uses H.460.18 for signaling traversal and call establishment and H.460.19 for media traversal
IP (H.323, SIP), ISDN or Serial Connectivity	• IP is standard and you choose the H.320 interface best for your application • Choose the right option for your specific network connection • Supports UPnP and NAT for automatic setup of conferences conducted through firewalls • Wide range of IP QoS services to insure call quality and integrity • Optional H.320 interfaces include Quad BRI, PRI, V.35, RS-449 and RS-530
Multiple Use RS-232 Port	• RS-232 port (2 ports on HDX 9004) • Integrate easily with control panels.
E-Mail dialing format when dialing across IP security boundaries	• Easy and intuitive E-mail video dialing • Operates with Polycom's V2IU™ Firewall Traversal Appliance • Deployable to wide range of customers, suppliers and partners

Interoperability

Part of Polycom's Unified Collaborative Communications	• Remote management, scheduling and gatekeeping functionality available with ReadiManager SE200 • Expand the audience over audio and video with an RMX™ bridge • RMX Click & View™ offers a variety of layout templates for multipoint call right from the system's handheld remote • Video recording, streaming and archiving with the Polycom RSS 2000™ and VMC 1000
Standards-based	• Solid, reliable platform • Qualified by independent test labs • Interoperates with other vendor's systems • Easy to install even in a multi-vendor environment
Baseline Mode	• Set your system to baseline mode, H.261 and G.711, for maximum interoperability with legacy video conferencing systems • Accessible via web, FTP or on-screen UI for easy access by the network administrator • Can be turned on and off as needed

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